**Assignment instructions**

For this assignment, please use the Adventure Works Database.

1. Write a query in SQL to find the average and the sum of the subtotal for every customer. Return customerid, average and sum of the subtotal. Group the result on customerid and salespersonid. Sort the result on customerid column in descending order.
2. Write a query in SQL to find the sum of subtotal column in sales.salesorderheader. Group the sum on distinct salespersonid and customerid. Rolls up the results into subtotal and running total. Return salespersonid, customerid and sum of subtotal column i.e. sum\_subtotal.

**Questions for this assignment**

1. Write a query in SQL to find the average and the sum of the subtotal for every customer. Return customerid, average and sum of the subtotal. Grouped the result on customerid and salespersonid. Sort the result on customerid column in descending order.

Insert your answer here:

2. Write a query in SQL to find the sum of subtotal column in **sales.salesorderheader**. Group the sum on distinct salespersonid and customerid. Rolls up the results into subtotal and running total. Return salespersonid, customerid and sum of subtotal column i.e. sum\_subtotal.

Insert your answer here:

**How did you do?**

Compare the instructor's example to your own

**Instructor example**

A person with his arms crossed

Description automatically generated

[Trevoir Williams](https://www.udemy.com/user/trevoirwilliams/)

Write a query in SQL to find the average and the sum of the subtotal for every customer. Return customerid, average and sum of the subtotal. Grouped the result on customerid and salespersonid. Sort the result on customerid column in descending order.

SELECT customerid,salespersonid,AVG(subtotal) AS avg\_subtotal, SUM(subtotal) AS sum\_subtotal FROM sales.salesorderheader GROUP BY customerid,salespersonid ORDER BY customerid DESC;

Write a query in SQL to find the sum of subtotal column in **sales.salesorderheader**. Group the sum on distinct salespersonid and customerid. Rolls up the results into subtotal and running total. Return salespersonid, customerid and sum of subtotal column i.e. sum\_subtotal.

SELECT salespersonid,customerid,sum(subtotal) AS sum\_subtotal FROM sales.salesorderheader s GROUP BY ROLLUP (salespersonid, customerid);